	Apple 1638Z Ø3	roved For Release	CLASSIFIED MESSAGE 2002/08/21 : CIA-RDP89B00980 SECRET	000200170048-3 2 3 4	NFG. C-33:  ROUTING  9 10 11 12
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	TOR: 1732Z	3 JUN 64			IN 81484 -
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SUBJ: ECP-176 HYPOXIA WARNING SYSTEM

RECENTLY COMPLETED FLIGHT TESTS INDICATE THAT YOUR APPROVAL

F THE HYPOXIA WARNING MODIFICATION, ECP-176, SHOULD BE RECONSIDERED. THE DEGREE THAT THIS MOD ACCOMPLISHES THE ORIGINAL
THREE OBJECTIVES IS DISCUSSED BELOW.

1. IMPROVE PILOT SAFETY: CONSENSUS OF OPINION BY FLIGHT TEST PILOTS AND THE PROJECT IS THAT PILOT SAFETY IS NOT INCREASED BY THE MCDIFICATION AND COULD BE ADVERSELY AFFECTED IF THE SYSTEM WERE TO MALFUNCTION. LACK OR REDUCTION OF OXYGEN PRESSURE IN THE HELMET IS IMMEDIATELY SENSED BY THE PILOT BY SE INMBILITY TO COMPLETELY FILL HIS LUNGS. ALSO THE HELMET BLADDEN WILL CONTRACT AGAINST HIS HEAD-THIS WILL BE DETECTED MUCH SOONER THAN THE REACTION OF THE HYPOXIA WARNING SYSTEM. IT MUST BE ASSUMED THAT THE OXYGEN BOTTLES CONTAIN ONLY PURE OXYGEN AND THAT ANY PRESSURE INTO THE PILOT'S HELMET WILL BE OXYGEN PRESSURE.

A FALSE HYPOXIA WARNING CAUSED BY MALFUNCTION OF THE EQUIPMENT COULD CREATE A HAZARE SINCE PROCEDURES IN MAKING A RAPID

CROUP:

CRO

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SIGNALS TO OBTAIN A

ESSARY FOR THIS PURPOSE.

DATA AND IS DETERMINING THE USABILITY OF EITHER OF THESE

OF TIME (1 MIN.). IF THE MIKE OUTPUT PROVES SATISFACTORY,

EVENT THAT BREATHING STOPS FOR A SPECIFIED LENGTH

THE HYPOXIA WARNING MODIFICATION WOULD NOT BE NEC-

TRANSMISSION IN THE

25X1

	Approved For Release 2002/08/21 : CIA-RDP89B00980R000200170048-3	
25X1	Ø679 (IN 81484) S E C R E T PAGE THREE	
25X1	RECOMMENDS THAT NO FURTHER ACTION BE TAKEN UNTIL	
##   12   12   12   12   12   12   12   12	ITEM 3 ABOVE IS RESOLVED BY THE MANUFACTURER, 25	5X1
	AFTER WHICH TIME THE ADVANTAGES OF THE MODIFICATION CAN BE	
e de la companya de l	WEIGHED AGAINST THE INITIAL COST OF KITS AND SPARES, THE REOC-	
•	CURRING COST FOR REPLACEMENT OF THE HYPOXIA SENSOR, AND THE	
:	COMPLICATIONS OF CALIBRATING THE HYPOXIA AMPLIFIER PRIOR TO	
	EACH FLIGHT.	
	WE ARE TAKING THE LIBERTY OF WITHHOLDING ALL PURCHASE ORDERS	
	AND ANY FURTHER DESIGN AND FABRICATION ACTIVITY UNTIL YOU CAN	
>	ADVISE US OF YOUR CONCLUSIONS. THIS WOULD RELEASE APPROXIMATELY	
25X1	FROM OUR CURRENT COMMITMENTS.	
br	FND OF MESSAGE	,

SECRET